

Rabbit anti-Human DENR Polyclonal Antibody | anti-DENR antibody

Anti-DENR Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259018	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

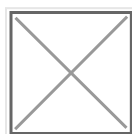
PRODUCT SYNONYMS

DENR; Polyclonal Antibody; Anti-DENR Antibody; Rabbit Polyclonal; Anti-DRP Antibody; Anti-DRP1 Antibody; Anti-SMAP-3 Antibody; anti-DENR antibody

PRODUCT SPECIFICATIONS

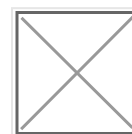
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human DENR
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-DENR antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived Human DENR fragment
Preparation	Produced in rabbits immunized with E coli-derived Human DENR fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

DENR was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate, Lane B: 0.5 mg 293T Whole Cell Lysate, Lane C: 0.5 mg Jurkat Whole Cell Lysate, 4 uL anti-DENR rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-DENR rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 22 kDa. Observed band size: 28 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of DENR in PC3 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human DENR polyclonal antibody (dilution ratio 1:100) at 4°C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



WB (Western Blot)

Anti-DENR rabbit polyclonal antibody at 1:500 dilutionLane A: HeLa Whole Cell LysateLane B: 293T Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:22 kDaObserved band size:28 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-DENR antibody	The non-canonical initiation factor DENR promotes translation reinitiation on mRNAs harbouring upstream open reading frames (uORFs). DENR depletion shortens circadian period in mouse fibroblasts, suggesting involvement of uORF usage and reinitiation in clock regulation. The density-regulated protein (DENR) and the malignant T cell-amplified sequence 1 (MCT-1/MCTS1) oncoprotein support noncanonical translation initiation, promote translation reinitiation on a specific set of mRNAs with short upstream reading frames, and regulate ribosome recycling. The N-terminal domain of DENR interacts with MCT-1 and carries a classical tetrahedral zinc ion-binding site, which is crucial for the dimerization. DENR and MCT-1 form the heterodimer, which binds to the ribosome and operates at both translation initiation and reinitiation steps.
References	Lomakin IB, et al. (2020) Crystal structure of the c-terminal domain of denr. Comput Struct Biotechnol J 18 696-704. Lomakin IB, et al. (2019) Crystal structure of the denr-mct-1 complex revealed zinc-binding site essential for heterodimer formation. Proc Natl Acad Sci U S A 116 (2): 528-533. Castelo-Szekely V, et al. (2019) Charting denr-dependent translation reinitiation uncovers predictive uorf features and links to circadian timekeeping via clock. Nucleic Acids Res 47 (10): 5193-5209.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/denr-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/259018>